



ATLANTIC PREMIUM TRANSFORMER OIL INHIBITED - 60

High-Performance Paraffinic Inhibited Insulating Oil

PRODUCT DESCRIPTION & APPLICATION

ATLANTIC PREMIUM TRANSFORMER OIL INHIBITED – 60 is a high-performance insulating oil engineered to meet the demanding requirements of modern power transformers. It provides excellent thermal and oxidation stability, ensuring long service life and reliable performance under extreme operating conditions. It is formulated using high-purity base oils containing zero sulphur, and therefore free from sulphur, PCBs, DBDS, and passivators, making it a safe and environmentally responsible choice. Its refined composition delivers superior dielectric strength, excellent heat dissipation, and outstanding compatibility with transformer materials. It is formulated with an oxidation inhibitor to minimize formation of acids and sludge in service to minimize oil deterioration and extend the operating life of the immersed components.

ATLANTIC PREMIUM INHIBITED TRANSFORMER OIL also meets key international standards, including IEC and ASTM, and passes both established and advanced copper corrosion tests, ensuring optimal protection and efficiency in electrical equipment. It is specially designed for modern electrical systems including transformers, oil- immersed switchgear, power fuses, circuit breakers, capacitors and any high loaded application requiring a low viscosity, low pour point, high quality base oil.

FEATURES AND BENEFITS

- Delivers predictable performance under all operating conditions.
- Increased resistance to oxidation for extended service intervals.
- Reduces sludge formation and maintains thermal efficiency for better transformer operation.
- Noncorrosive to copper and copper alloys
- Does not contain any PCBs, DBDS

PERFORMANCE STANDARDS

Conforms to IEC 60296:2020 Edition 5, IEC 62535, DIN 51353, ASTM D1275B, D 3487 for inhibited transformer oil.

TYPICAL TECHNICAL PROPERTIES

PRODUCT CODE	NR-SL-DF-25005	
CHARACTERISTICS	SPECIFICATION	TYPICAL VALUE
Function		
Color, ISO 2049	Max. 1.5	Report
Density @20°C ,kg/dm3, ISO 3675 or ISO 12185	0.895 Max	0.805
Kinematic Viscosity, ISO 3104 @40°C ,mm2/sec @ -30°C ,mm2/sec	12 Max 1800 Max	10.1 539
Pour Point ,°C, ISO 3016	-40 Max	-42
Breakdown Voltage, IEC 60156	Min. 30 kV as delivered Min. 70 kV after lab treatment	>30 >70
Dielectric Dissipation Factor @90°C & 40°C To 60 Hz, IEC-60247 OR IEC 61620	0.005 Max	0.001
Refining/ Stability		
Appearance, Visual	Clear, Free from Sediment & Suspended Matter	Clear, Free from Sediment & Suspended Matter
Inter Facial Tension ,MN/m, EN 14210 OR ASTM D971	40 Min	>40
Corrosive Sulphur, DIN 51353	Non-Corrosive	Non-Corrosive
Potentially Corrosive Sulphur, IEC 62535	Non-Corrosive	Non-Corrosive
DBDS(Dibenzylthiophosphate) ,mg/kg, IEC 62697	Not Detectable(<5mg/kg)	Not Detectable
Metal Passivator Additives mg/kg, IEC 60666	Not Detectable	Not Detectable
2 Furfural Content ,mg/kg/gm, IEC-61198	Not Detectable(<0.055mg/kg)	Not Detectable
Performance		
Oxidation Stability @120°C, 164 Hrs, IEC-61125 A) Total Acidity ,mg KOH /gm, 4.8.4 of IEC 61125:2018 B) Sludge ,%, 4.8.1 of IEC 61125:2018 C) DDF @ 90 °C, 4.8.5 Of IEC 61125:2018	1.2 Max 0.8 Max 0.5 Max	0.096 0.040 0.020
Health, Safety and Environment		
Flash Point ,°C, ISO 2719	135 Min	188
PCA Content ,%, BS-2000 Part 346	3.0 Max	0.28
PCB Content mg/kg/gm, IEC-61619	Not Detectable	Not Detectable

Note: These characteristics are typical of current production. While future production will conform to Atlantic's specification, variations in these characteristics may occur.

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* supersedes all previous versions

Packing: 208L